

METHOD AND SYSTEM FOR DISPLAYING OBJECT, AND METHOD AND SYSTEM FOR PROVIDING THE OBJECT

RELATED APPLICATIONS

[0001] This application is a continuation application of U.S. patent application Ser. No. 14/169,182, filed Jan. 31, 2014 (which will issue as U.S. Pat. No. 9,531,819, dated Dec. 27, 2016), which claims priority from Korean Patent Application Nos. 10-2013-0011492, filed on Jan. 31, 2013, and 10-2013-0085680, filed on Jul. 19, 2013 in the Korean Intellectual Property Office, the disclosures of which are incorporated herein by reference in their entireties.

BACKGROUND

[0002] 1. Field

[0003] Methods and apparatuses consistent with the exemplary embodiments relate to a method of displaying, on a screen, an object that is related to content reproduced by a second device, and a method and system for providing the object related to the content reproduced by the second device to the first device, the method and system performed by the second device or a management server.

[0004] 2. Description of the Related Art

[0005] Due to the developments in communication and display technologies, users see various types of content that are provided in public places. For example, a user may check various administrative procedures, product information, information about using various facilities, tourist information about surrounding areas, or the like on a display device (e.g., a kiosk) equipped in public places such as a government agency, a local government entity, a department store, an airport, or a railway station. Also, the user may view movie content on a display device available in an airplane or an express bus, or may view broadcasting content such as the news on a display device available at a platform or a waiting room.

[0006] Because the user may not remain in the public place, the user has to discontinue viewing of the content reproduced in the public place, and then move to a different location.

[0007] Thus, there is a demand for a system that allows a user, after the user exits the public place, to continuously use a service that was provided in the public place, on a personal terminal of the user.

SUMMARY

[0008] One or more exemplary embodiments provide a method and system for providing via a first device a recommendation item related to content reproduced by a second device to a user of the first device, wherein the user has been viewing the content and then exits a service zone of the second device.

[0009] According to one or more exemplary embodiments, a first device configured to display at least one object related to content reproduced by a second device, the first device comprises a sensor configured to sense an exit of the first device from a service zone of the second device during reproduction of the content by the second device; a communication device configured to request, from a management server, an object related to the content, the object including link information for receiving information about the content reproduced by the second device at a point of

time when the sensor senses the exit of the first device, and configured to receive the object related to the content from the management server; and a controller configured to control a display to display the received object related to the content on a predetermined screen of the first device.

[0010] According to another aspect of the exemplary embodiments, a management server includes a communication device configured to, if a first device exits a service zone of a second device reproducing content, receive from the first device request information for requesting an object related to the content, request the second device for information about the content reproduced by the second device at a point of time when the first device exits the service zone of the second device, and receive the information about the content from the second device; and a controller configured to generate the object related to the content based on the information about the content, and transmit the generated object related to the content via the communication device to the first device.

[0011] According to another aspect of the exemplary embodiments, a first device configured to display an object related to content reproduced by a second device includes a communication device configured to receive an object related to content reproduced by the second device, from the second device in a predetermined cycle, the object including link information for receiving information about the content; and a sensor configured to sense an exit of the first device from a service zone of the second device during reproduction of the content by the second device; and a controller configured to control a display to display the object related to the content on a predetermined screen of the first device at a point of time when the exit of the first device is sensed.

[0012] According to another aspect of the exemplary embodiments, a first device configured to display an object related to content reproduced by a second device includes a communication device configured to receive information about content reproduced by the second device, from the second device when the first device is in a service zone of the second device; a sensor configured to sense an exit of the first device from the service zone of the second device during reproduction of the content by the second device; a controller configured to generate the object related to the content based on the received information about the content at a point of time when the exit is sensed; and a display configured to display the generated object related to the content on a predetermined screen of the first device.

[0013] According to another aspect of the exemplary embodiments, a method, performed by a first device, of displaying an object related to content reproduced by a second device comprises sensing an exit of the first device from a service zone of the second device during reproduction of the content by the second device; requesting a management server for an object related to the content, the object including link information for receiving information about the content reproduced by the second device at a point of time when a sensor senses the exit of the first device from the service zone of the second device; receiving the object related to the content from the management server; and displaying the received object related to the content on a predetermined screen of the first device.

[0014] According to another aspect of the exemplary embodiments, a method, performed by a management server, of providing an object, comprises, if a first device exits a service zone of a second device reproducing content,